

Setra Velocity Monitor
SRIMV
Installation and Operation Manual



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1.0 FEATURES

The SRIMV is a multi-mode (air velocity, flow, pressure, temperature and humidity) monitor. It has a 3 color backlight display, a digital input for a door switch, 2 analog inputs for temperature and humidity, 1 relay output for remote alarm indication and an internal pressure sensor. It can display and alarm on Velocity, Flow, Pressure, Temperature and Humidity parameters.

User Interface

- Large LCD 2 line display shows values of the monitored parameters
- Green (Normal), Yellow (Warning), Red (Alarm) Backlit display for indicating the status
- Membrane keypad for ease of configuration and menu navigation
- Password Protection for security

Audible Visual and Remote Alarms

- Color Backlight LEDs
- Alarm on Pressure, Velocity, Flow, Temperature and Humidity
- Audible Buzzer
- Alarm delay, mute timeout, alarm enable/disable, buzzer enable/disable
- SPDT Relay for remote alarms, including Setra Remote Annunciator (SRAN)

Ease of Installation and Calibration

- Flush mount (mounts flush to wall surface) and duct mount (surface mount) versions; both are wipe-down compatible for decontamination
- Rotate-able pressure fittings to eliminate crimping of pressures hoses, allows installation flexibility
- Snap on cover, no visible fasteners
- Modular plug-in design using sub-base. Simultaneous electrical and plumbing connections reduce initial installation and calibration costs. Unit can be calibrated in house or sent for calibration service without removing the wiring or plumbing
- Push button zero and span calibration, no potentiometer adjustments
- PG9 and Conduit fitting in same unit, field selectable

Versatile

- Field selectable outputs, 4-20 mA, 0-5 VDC or 0-10 VDC
- One unit that can be field configurable for almost all duct and room measurement applications

2.0 SRIMV Included Parts



Fig. 2-1 **Parts Provided**

The SRIMV parts list includes:

- SRIMV Velocity Monitor
- Accessories: ordered separately

For Velocity and Flow measurement a Pitot tube, averaging probe or flow station is required as an input to the pressure ports on the SRIMV. Setra offers the following averaging probe.

Averaging Flow sensor: Part # 242915-xx



The SRIMV can be used with any manufacturer's probe. The "k" factor flow coefficient must be entered into the SRIMV at commissioning. The default setting as shipped is $K=1$. K factor changes based on probe length.

Installation

The 242915-xx units utilizes 1/4" ID, 3/8" OD tubing. First check that there are no sharp bends in the tubing at any connection. Connect the "H" Port to the high input on the SRIMV units. Connect the "L" Port to the low input on unit.

Approximate K factors for models:

242915-01: 1.32

242915-02: 1.39

242915-03: 1.46

242915-04: 1.46

242915-05: 1.58

242915-06: 1.67

Mounting

1. Install the unit horizontally to ensure accurate readings for units ranging from 3-5/32" to 9-29/32". If using a unit longer than the 242915-05, which is 9-29/32", vertical mounting is recommended.
2. Determine the duct's flow direction and install the model 2429150-xx based on the unit's flow arrow imprint.
3. Cut a 7/8" hole in the ducting to accept the unit; tip should be at least to the center of duct.
4. Attach using two self-tapping screws inserted in the 3/16" mounting holes.

3.0 Installation

The SRIMV is available in two models suitable for wall (flush mount) and surface mounting (panel mounting). The front panel of the product and the rear housing are snapped together. The two snaps are located on the left and right sides of the front panel. A 1.5mm (1/16 inch) Allen wrench or paper clip can be used to open the concealed snap fastening system.

The rear housing can be used to mount to a wall or into a 3 gang "off the shelf" electrical box. Conduit (1/2") or a PG9 cable connection are available for wiring to the terminals at the rear of the unit. The rear housing acts much like a thermostat sub-base that does not have to be removed once installed.

The front bezel contains the pressure sensor, PCBA and display. It is a complete module that can be calibrated. The pressure and electrical connectors are disconnected simultaneously when the front bezel is removed.

Before installing, determine a good installation location. For flush mount applications, the corridor outside the room is preferred. For surface mount applications the unit may be mounted on the duct work (avoid high vibration), a stable surface near the ductwork or inside a panel.

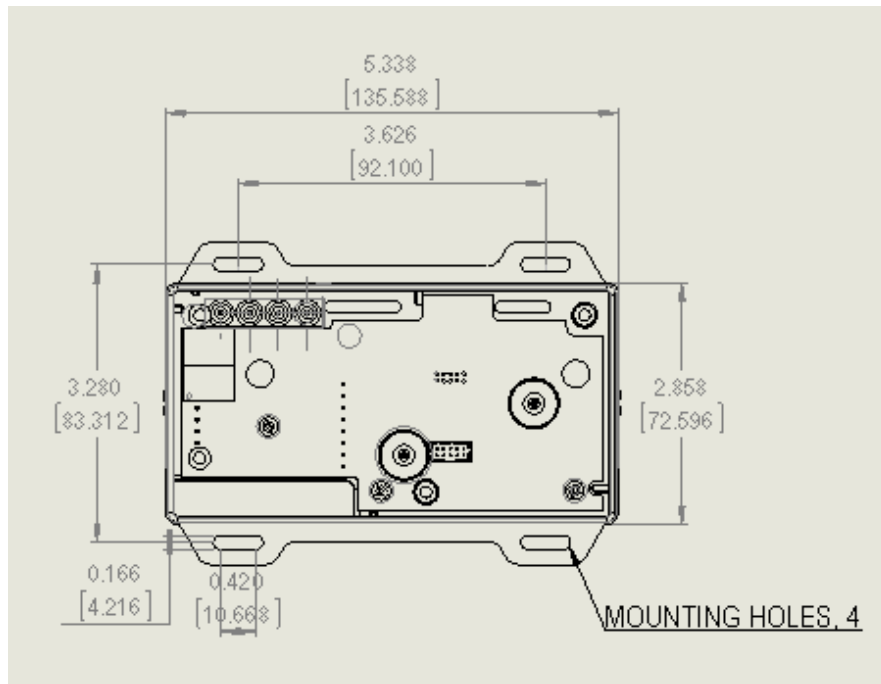


Fig 3-1 Wall (Flush) mount housing dimensions, front view

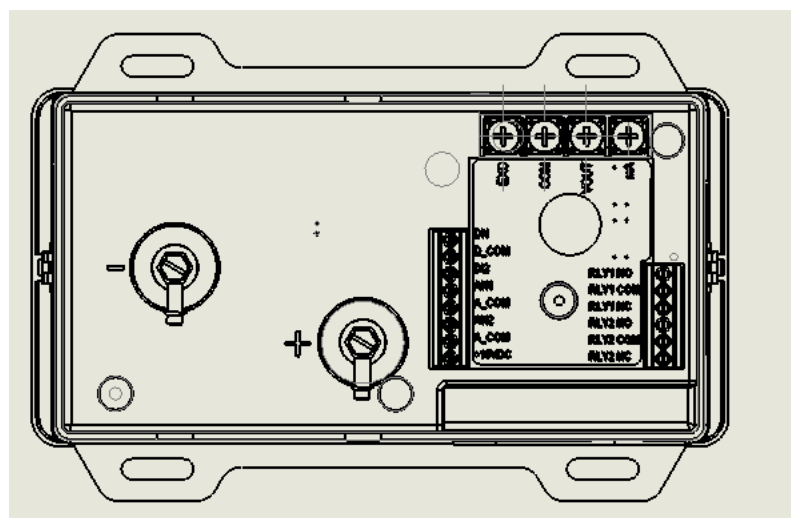


Fig 3-2 SRIMV Wall (Flush) mount housing rear view of pressure fittings and electrical terminations

Unpack the product box. Do not remove the protective film on the front display screen until after installation to prevent scratching of the display during the installation process. Remove parts and place them on flat surface. Apply pressure on the side of the box to open the snap fit or use an Allen wrench or paper clip as shown See Figure 1-2. First one side then the other, then pull the bezel forward to remove it from the housing.

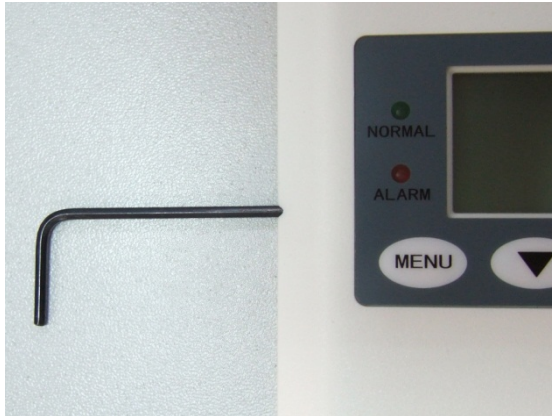


Fig. 3-4 Removing bezel from the base

Plumbing and Wiring to the Electrical Box (Rough in)

Flush mounting:

Use a 3 gang electrical box RACO 697 or equivalent or mount directly into the wall. If mounting directly into the wall create an opening approximately 2.8" (71 mm) by 5.4" (134 mm). If using the 3 gang box use #6 machine screws to mount the ears of the SRIM rear housing to the electrical box. If mounting directly into the wall without an electrical box, use drywall screws to mount the 4 ears of the SRIMV box to the wall.

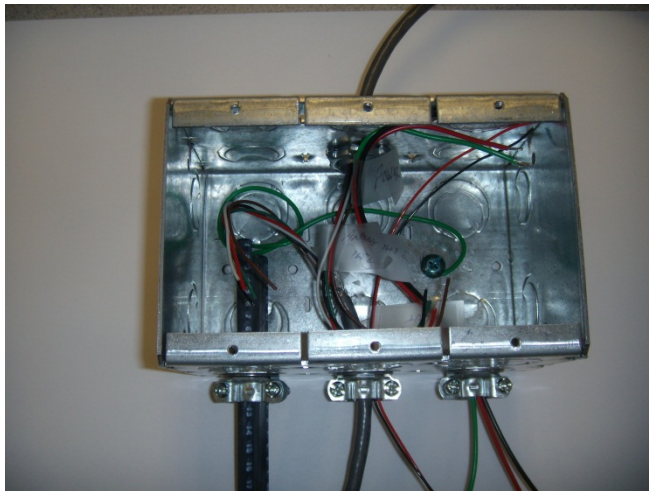


Fig. 3-5 Rough Plumbing and Wiring to Rough-in box, Flush Mount Unit

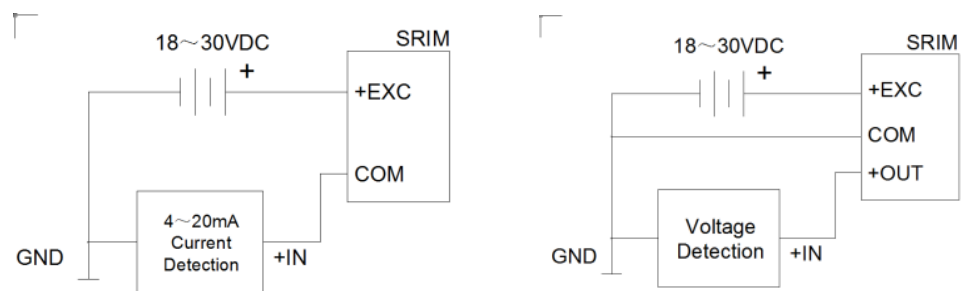


Fig. 3-6 Wiring Diagram SRIMV

Rotating pressure Fittings, can point up or down, SRIMV only

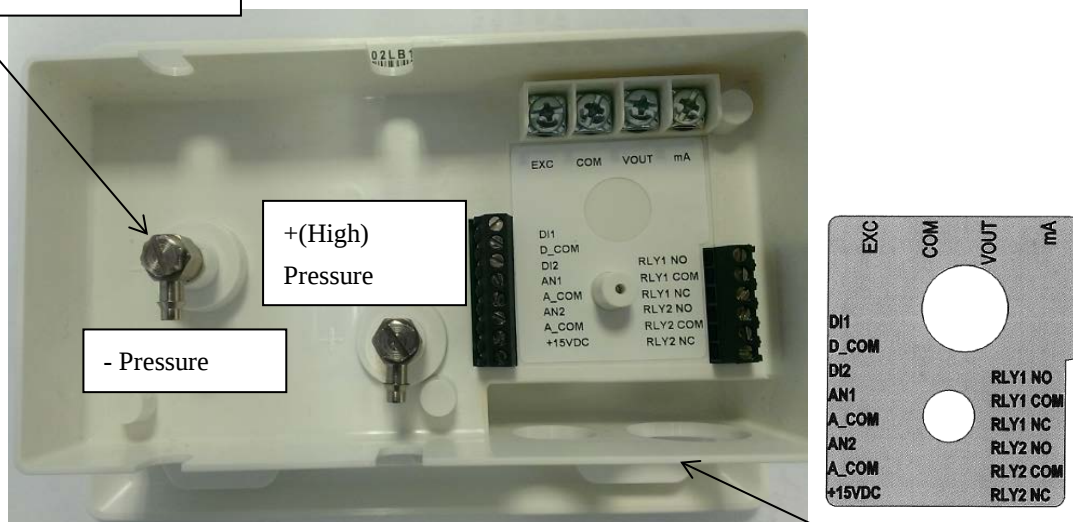


Fig 3-7 Pressure ports and electrical terminals, SRIMV

Pull wires through the openings in the bottom of the base. ½" Conduit or PG9 fitting openings are provided.

Terminal	Function
EXC	18-30 VDC, 24 +/- 20% VAC
COM	Power Supply COM and Analog Out COM
VOUT	Analog Output + (VDC mode) 0-5 VDC, 0-10 VDC
mA	Analog Output (mA output mode) 4-20mA
DI1	Door status, wire to one side of NO contact
D_COM	Door status, wire to other side of NO contact
DI2	Not used
AN1	+ output of temperature sensor (if used) 0-5, 1-5, 0-10 VDC
A_COM	Common output of temperature and humidity sensors (if used)
AN2	+ output of humidity sensor (if used) 0-5, 1-5, 0-10 VDC
COM	15V Power Common (return)
+15VDC	Power for remote annunciator (if used) 15 VDC, 50mA
RLY1 NO	Relay 1 Normally open contact, 3A 120 VAC, 28 VAC, resistive load
RLY1 COM	Relay 1 Common contact
RLY1 NC	Relay 1 Normally closed contact
RLY2 NO	Not used
RLY2 COM	Not used
RLY2 NC	Not used

Table 1 Wiring SRIMV

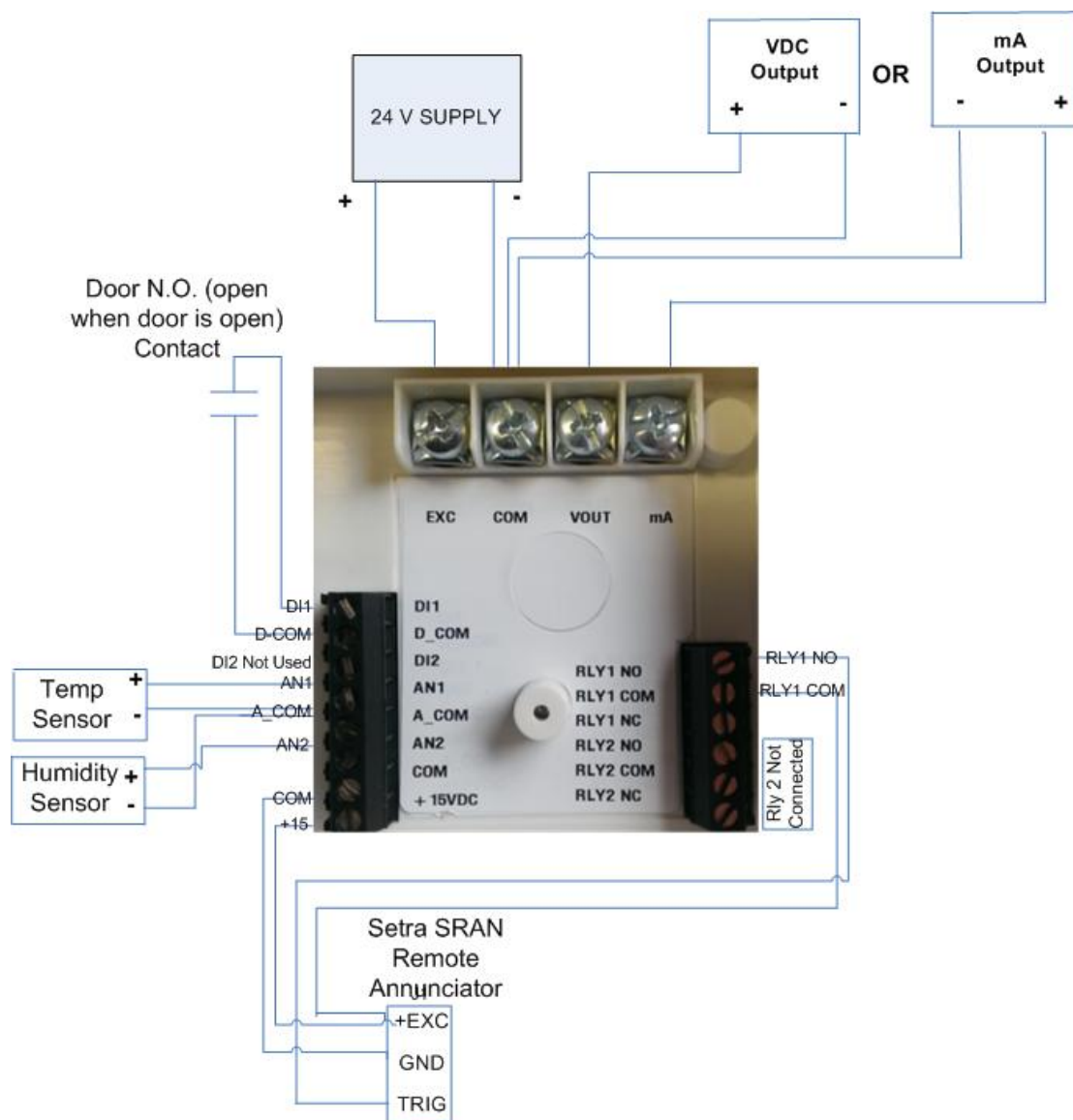


Figure 3-8 Wiring, SRIMV

Notes:

Relay 1 (RLY1) is a SPDT relay that can be used to signal a remote unit of an alarm condition. The relay contacts are rated for 3 A, 120 VAC, 3A, 28VDC



Fig. 3-9 Installed plugs on unused openings in the base.

Connect the pressure tubes to the high and low pressure ports. Wire to the electrical terminals on the back of the housing. If desired, place electrical plugs on the unused holes in the base.

Complete the installation by installing the bezel onto the base by aligning the two and pushing the bezel into the base until the bezel snaps to the base on the 2 sides. Be sure to carefully align the 2 parts and push straight in. There are alignment features on the front bezel and rear housing.

4. 0 Menu Navigation and Configuration

The LCD display is standard on the SRIMV and the display provides valuable feedback during configuration and for user feedback in the normal and alarm modes.

Apply 24 VDC or 24 VAC power.

Menu Flow Chart. The SRIMV flow chart is available on the setra.com web site to help with set up and configuration. Use the QR code to get to setra.com.



Display Parameters



Unit in the normal state, line 1 indicates differential pressure, velocity or flow and the corresponding engineering units. Line 2 indicates the temperature and humidity reading, if enabled. The green backlight indicates that the velocity (or pressure or flow), the temperature and humidity is within the allowable alarm limits. Note that the alarm will occur if any of the 3 monitored parameters are outside of their respective limits.



Unit shown in alarm state. There will be a red backlight with an arrow indicating which parameter is in alarm and if it is above or below alarm limits. The audible buzzer will also be active if it has been enabled.

Menu Operation



Menu key – Provides access to the menu structure



Down arrow key – Allows selection of numerical parameters. Pushing the down arrow causes the digits to move upwards in a 1 digit count and will wrap around. The cursor below the indicated item in the current menu item indicates that this is the digit that is being changed. If you don't need to make a change to that position press the enter key to move to the next position to the right.



Enter key – Use this key to move left to right in a current menu screen. It is also used to save the current menu items selected settings, or to confirm the current menu operation. Press the Enter key to save the current settings; the display will show the current setting value and flash twice, and prompt the user that the value currently set has been saved. There is no “back” button, so if the user proceeds past the desired parameter they must go back to the start of that menu screen.



Return/Silence button – This button provides a quick way to return to the home screen from anywhere within the menu structure. It has the secondary purpose of temporarily silencing the audible alarm. If the mute timeout setting is reached the audible alarm will again sound.

Menu Screens

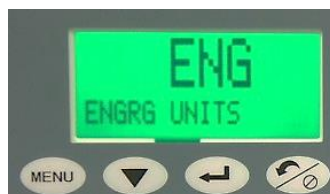
1. Common Configuration

Menu Setup



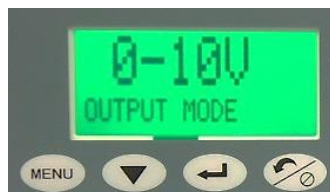
Runs through the setup screens to set all parameters to desired set points. Below are all of the parameters that must be selected.

Engineering Units



User selectable for either English or Metric units. Choose “enter” to activate the engineering units menu. The engineering units will flash and then press the “down arrow” to select desired units. Press “enter” to select.

Output Mode



User selectable output mode: 0-5V, 0-10V or 4-20mA. Choose “enter” to activate the output mode menu. The output mode will flash and then press the “down arrow” to select desired mode. Press “enter” to select.

Velocity, Flow, Pressure, ACH Selection



User Selectable for Velocity, Flow, Pressure or Air Changes per Hour. Whichever option is chosen in this menu will be shown as the default in the secondary menu under the V/Flow/Pressure section. Choose “enter” to activate the V/Flow/Press menu. The menu will flash and then press the “down arrow” to select desired mode. Press “enter” to select.

Alarm Delay



Set the desired time for Alarm Delay. Choose “enter” to activate the Alarm Delay menu. The menu will flash, then press the “down arrow” to select correct digit: “enter” moves to next digit.

Mute Timeout



Sets the desired amount of time to engage Mute Timeout. Choose “enter” to activate the Mute timeout menu. The menu will flash, then press the “down arrow” to select correct digit: “enter” moves to next digit.

Buzzer Enable



Enables or disables the audible buzzer alarm. Choose “enter” to activate the Buzzer Enable menu. The menu will flash, then press the “down arrow” to select enable or disable. Press “enter” to select.

Door Switch



Door switch enable/disable. Enable if used with a door switch to detect if door is open.

Password Enable



Enables or disables the 4 digit numeric password.

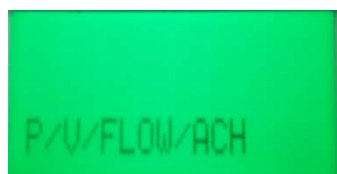
Filter Setting



(0-99) is the filter setting. This is the number of samples used to take an average; it is a weighted rolling average, so the higher the number the more filtering is done to smooth out the output and display readings. Thus, for turbulent flows it is recommended to use a higher filter number. For faster response you would use smaller setting.

2. V/Flow/Pressure/ACH

If Velocity is chosen:



After choosing to display and monitor Velocity from the Common Configure section, set the parameters for that output.

K Factor



The K factor is provided by the manufacturer of the static pressure probe or Pitot tube

Barometric Pressure



Set current barometric pressure conditions. This can either be entered manually or it will be set to the standard default of 29.92 in Hg. Barometric Pressure effects the flow rate due to changes in air density. Choose “enter” to activate the Barometric Pressure menu. The menu will flash, then press the “down arrow” to select desired digit. Press “enter” to select and move to next digit.

Temperature Source



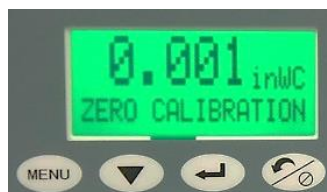
Choose between an analog sensor input (from external sensor) or “set-up”. The sensor input comes from the external sensor, whereas the “set-up” option is added manually if there is no temperature sensor used. Temp is used to calculate air density; Default is 70 degrees Fahrenheit or 21.1 degrees Celsius. Choose “enter” to activate the Temp Source menu. The menu will flash, then press the “down arrow” to select desired temp source. Press “enter” to select.

Enter Temperature



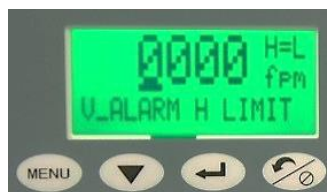
If Temp Source “set up” is chosen, manually enter the temperature. Choose “enter” to activate the Enter Temp menu. The menu will flash, then press the “down arrow” to select desired digit. Press “enter” to select and move to next digit.

Zero Calibration



“Tares” out any Zero pressure error. This must be done with Zero pressure applied to the unit.

Velocity Alarm High Limit



Sets the alarm for the high side velocity limit. Choose “enter” to activate the V Alarm H Limit menu. The menu will flash, then press the “down arrow” to select desired digit. Press “enter” to select and move to next digit.

Velocity Alarm Low Limit



Sets the alarm for the low side velocity limit. Choose “enter” to activate the V Alarm L Limit menu. The menu will flash, then press the “down arrow” to select desired digit. Press “enter” to select and move to next digit.

Velocity Alarm Enable



Enables or disables the velocity Alarm. Choose “enter” to activate the V Alarm menu. The menu will flash, then press the “down arrow” to select desired mode. Press “enter” to select.

Velocity Range



Sets velocity range in either ft/min or m/s. Choose “enter” to activate the Velocity Range menu. The menu will flash, then press the “down arrow” to select desired units. Press “enter” to select.

If Flow is chosen:



After choosing to display and monitor flow from the Common Configure section, set the parameters for that output.

K Factor



The K factor is provided by the manufacturer of the static pressure probe or Pitot tube and varies by probe length.

Barometric Pressure



Set current barometric pressure conditions. This can either be entered manually or it will be set to the standard default of 29.92 in Hg. Barometric Pressure effects the flow rate due to changes in air density. Choose “enter” to activate the Barometric Pressure menu. The menu will flash, then press the “down arrow” to select desired digit. Press “enter” to select and move to next digit.

Temperature Source



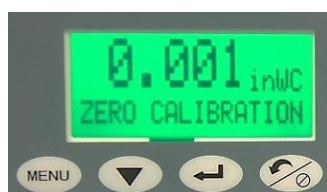
Choose between an analog sensor input (from external sensor) or “set-up”. The sensor input comes from the external sensor, whereas the “set-up” option is added manually if there is no temperature sensor used. Temp is used to calculate air density; Default is 70 degrees Fahrenheit or 21.1 degrees Celsius. Choose “enter” to activate the Temp Source menu. The menu will flash, then press the “down arrow” to select desired temp source. Press “enter” to select.

Enter Temperature



If Temp Source “set up” is chosen, manually enter the temperature. Choose “enter” to activate the Enter Temp menu. The menu will flash, then press the “down arrow” to select desired digit. Press “enter” to select and move to next digit.

Zero Calibration



“Tares” out any Zero pressure error. This must be done with Zero pressure applied to the unit.

Duct Area



Manually enter the area of the duct where the probe is mounted. The ducts area is necessary for calculating the flow rate. The menu will flash, then press the “down arrow” to select desired digit. Press “enter” to select and move to next digit.

Flow Alarm High Limit



Sets the alarm for the high side flow limit. Choose “enter” to activate the F Alarm H Limit menu. The menu will flash, then press the “down arrow” to select desired digit. Press “enter” to select and move to next digit.

Flow Alarm Low Limit



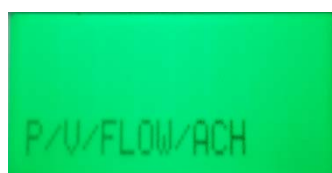
Sets the alarm for the low side flow limit. Choose “enter” to activate the F Alarm L Limit menu. The menu will flash, then press the “down arrow” to select desired digit. Press “enter” to select and move to next digit.

Flow Alarm Enable



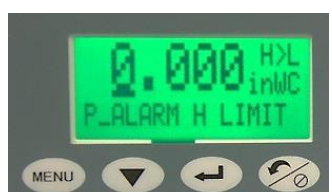
Enables or disables the flow Alarm. Choose “enter” to activate the F Alarm Enable menu. The menu will flash, then press the “down arrow” to select desired mode. Press “enter” to select.

If Pressure is chosen:



After choosing to display and monitor pressure from the Common Configure section, set the parameters for that output.

Pressure Alarm High Limit



Sets the alarm for the high side pressure limit. Choose “enter” to activate the P Alarm H Limit menu. The menu will flash, then press the “down arrow” to select desired digit. Press “enter” to select and move to next digit.

Pressure Alarm Low Limit



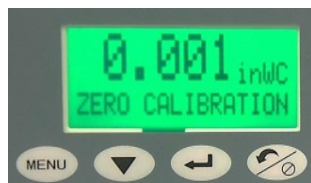
Sets the alarm for the low side pressure limit. Choose “enter” to activate the P Alarm L Limit menu. The menu will flash, then press the “down arrow” to select desired digit. Press “enter” to select and move to next digit.

Pressure Alarm Enable



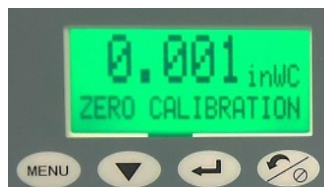
Enables or disables the Pressure Alarm. Choose “enter” to activate the F Alarm Enable menu. The menu will flash, then press the “down arrow” to select desired mode. Press “enter” to select.

Zero Calibration



“Tares” out any Zero pressure error. This must be done with Zero pressure applied to the unit.

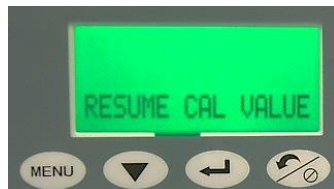
Span Calibration



“Tares” out any span pressure error. This must be done with the +Full Range (FR) pressure applied.

For ex: if the pressure range is +/-0.1” WC, apply 0.1” WC.

Resume Calibration Value



Restores factory calibration settings in case a calibration may have been performed incorrectly.

If Air Changes per Hour is Selected



After choosing to display and monitor Air Changes Per Hour from the Common Config section, set the parameters for that output.

K Factor



The K factor is provided by the manufacturer of the static pressure probe or Pitot tube and varies by probe length.

Barometric Pressure



Set current barometric pressure conditions. This can either be entered manually or it will be set to the standard default of 29.92 in Hg. Barometric Pressure effects the flow rate due to changes in air density. Choose “enter” to activate the Barometric Pressure menu. The menu will flash, then press the “down arrow” to select desired digit. Press “enter” to select and move to next digit.

Temperature Source



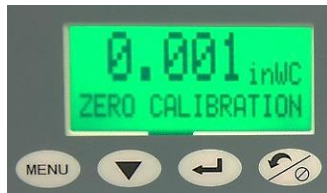
Choose between an analog sensor input (from external sensor) or “set-up”. The sensor input comes from the external sensor, whereas the “set-up” option is added manually if there is no temperature sensor used. Temp is used to calculate air density; Default is 70 degrees Fahrenheit or 21.1 degrees Celsius. Choose “enter” to activate the Temp Source menu. The menu will flash, then press the “down arrow” to select desired temp source. Press “enter” to select.

Enter Temperature



If Temp Source “set up” is chosen, manually enter the temperature. Choose “enter” to activate the Enter Temp menu. The menu will flash, then press the “down arrow” to select desired digit. Press “enter” to select and move to next digit.

Zero Calibration



“Tares” out any Zero pressure error. This must be done with Zero pressure applied to the unit.

Duct Area



Manually enter the area of the duct where the probe is mounted. The ducts area is necessary for calculating the flow rate. The menu will flash, then press the “down arrow” to select desired digit. Press “enter” to select and move to next digit.

Room Volume



Enter the Room Volume (multiply width by length by height)

Default is 68, range is 0 to 99.9

ACH Alarm High Limit



Sets the alarm for the high side ACH limit. Choose “enter” to activate the A Alarm H Limit menu. The menu will flash, then press the “down arrow” to select desired digit. Press “enter” to select and move to next digit. Default is 99.

ACH Alarm Low Limit



Sets the alarm for the low side ACH limit. Choose “enter” to activate the A Alarm L Limit menu. The menu will flash, then press the “down arrow” to select desired digit. Press “enter” to select and move to next digit. Default is 0.

ACH Alarm Enable



Enables or disables the ACH alarm. Choose “enter” to activate the A Alarm Enable menu. The menu will flash, then press the “down arrow” to select desired mode. Press “enter” to select.

ACH Range



Enter Range of ACH for the analog output. ACH range is proportional to the chosen output.

3. Temperature Selection Menu

Temperature



Runs through the Temperature setup screen to set all parameters to desired set points.

Temperature Enable



Enables or Disables the Temperature Setting. Choose “enter” to activate the F Alarm Enable menu. The menu will flash, then press the “down arrow” to select desired mode. Press “enter” to select.

Temperature Min Vin



Enter the minimum temperature that corresponds to the min. analog output- T_Min Vin. Choose “enter” to activate the T Min T menu. The menu will flash, then press the “down arrow” to select desired digit. Press “enter” to select next digit

.

Temperature Min T



Enter the minimum temperature that corresponds to the min. analog output- T_Min Vin. Choose “enter” to activate the T Min T menu. The menu will flash, then press the “down arrow” to select desired digit. Press “enter” to select next digit.

Temperature Max Vin



Input the maximum temperature that corresponds to the max analog output- T_Max Vin. Choose “enter” to activate the T Max Vin menu. The menu will flash, then press the “down arrow” to select desired digit. Press “enter” to select next digit.

Temperature Max T



Input the analog output of the temperature sensor that corresponds to highest temperature to be measured T_Max T. Ex: 5 V = 130 F. Choose “enter” to activate the T Max T menu. The menu will flash, then press the “down arrow” to select desired digit. Press “enter” to select next digit.

Temperature Alarm High Limit



Sets the alarm for the high side temperature limit. Choose “enter” to activate the T Alarm H Limit menu. The menu will flash, then press the “down arrow” to select desired digit. Press “enter” to select next digit.

Temperature Alarm Low Limit



Sets the alarm for the low side temperature limit. Choose “enter” to activate the T Alarm L Limit menu. The menu will flash, then press the “down arrow” to select desired digit. Press “enter” to select next digit.

Temperature Alarm Enable



Enables or Disables the temperature alarm. Choose “enter” to activate the T Alarm Enable menu. The menu will flash, then press the “down arrow” to select desired mode. Press “enter” to select.

4. Humidity Selection Menu



Runs through the Humidity setup screen to set all parameters to desired set points.

Humidity Enable



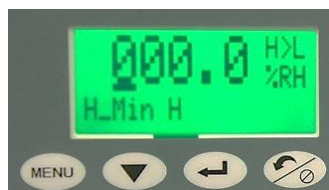
Enables or disables humidity setting. Choose “enter” to activate the Humidity Enable menu. The menu will flash, then press the “down arrow” to select desired mode. Press “enter” to select.

Humidity Minimum Vin



Input the minimum humidity that corresponds to the min. analog output- H Min Vin. Choose “enter” to activate the H Min Vin menu. The menu will flash, then press the “down arrow” to select desired digit. Press “enter” to select next digit.

Humidity Minimum H



Input the analog output of the humidity sensor that corresponds to lowest humidity to be measured H_Min H. Ex: 0 V = 5%RH. Choose “enter” to activate the H Min Vin menu. The menu will flash, then press the “down arrow” to select desired digit. Press “enter” to select next digit.

Humidity Max Vin



Input the maximum humidity that corresponds to the min. analog output- H Max Vin. Choose “enter” to activate the H Max Vin menu. The menu will flash, then press the “down arrow” to select desired digit. Press “enter” to select next digit.

Humidity Max H



Input the analog output of the humidity sensor that corresponds to the highest humidity to be measured H_Max H Ex: 5V = 95% RH. Choose “enter” to activate the H Max H menu. The menu will flash, then press the “down arrow” to select desired digit. Press “enter” to select next digit.

Humidity Alarm High Limit



Sets the alarm for the high side humidity limit. Choose “enter” to activate the H Alarm H Limit menu. The menu will flash, then press the “down arrow” to select desired digit. Press “enter” to select next digit.

Humidity Alarm Low limit



Sets the alarm for the low side humidity limit. Choose “enter” to activate the H Alarm L Limit menu. The menu will flash, then press the “down arrow” to select desired digit. Press “enter” to select.

Humidity Alarm Enable

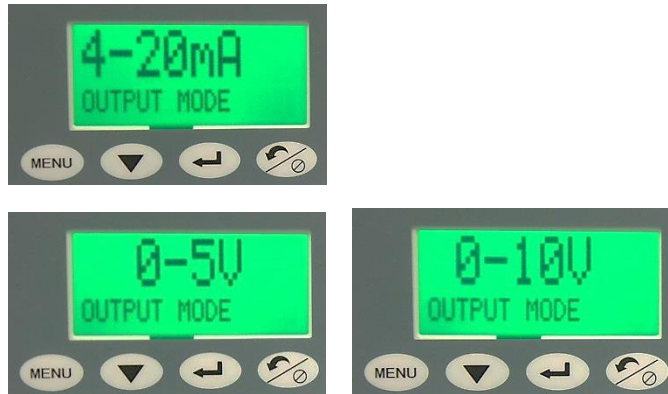


Enables or disables the humidity alarm. Choose “enter” to activate the H Alarm Enable Limit menu. The menu will flash, then press the “down arrow” to select desired mode. Press “enter” to select.

Examples for Setting up Menu

Example 1: Output mode setting

To enter the menu, press the Menu key to view “Common Configuration. Next, press the ← button twice until the display indicates output mode. 4-20 mA is the default output mode, if you want to change to 0-5Vdc or 0-10Vdc press the down arrow and press the return key to select. The display will blink twice to confirm the setting change.



Continue to press the menu key to progress all the way through the menu until you reach the ESCAPE screen. Press the Enter key to exit out of the menu and return to home screen.

Example 2.: Setting the password (4 digit numerical) protection

Press the menu key to get the “Common Configure” screen. Next, press the ← button until reaching the PASSWORD ENABLE screen. If ENABLE password is chosen, press the MENU button again to get to the ENTER PASSWORD screen. There will be a prompt to input the password. Using the down arrow, select each number of the password. In order to move to the next character press the ← button. When the input is complete press the ← button to save the password and complete the setup. When password protection is enabled, you must enter the correct password before you can enter the menu or change parameters.

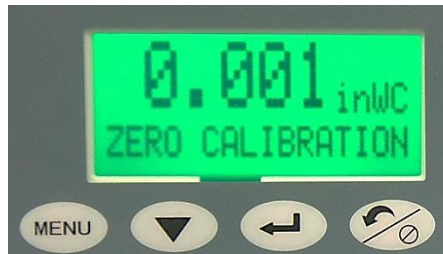
Save the password in a safe location. If you forget the password, use the backdoor password of 0159 and reset the password if desired.



Example 3 Calibration

Remove the tubes from the pressure ports or shut off fans to the room and open the door so that zero differential pressure is applied to the monitor.

Select menu item ZERO CALIBRATION. The display shows the current pressure value, press the Enter key. If the reading is within allowed limits the unit will respond with the message that calibration was successful.



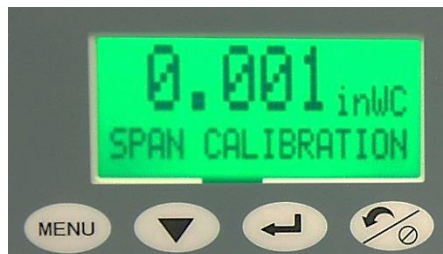
Full scale calibration:

Note: the full range adjustment should be completed after zero adjustment.

Span adjustment should only be performed if a very accurate and stable Full Range pressure can be applied, such as with a Setra Micro Cal Calibrator.

Apply full range pressure to the high and low pressure ports.

Select menu items SPAN CALIBRATION, the display will show the current pressure value, press the Enter key, if the applied pressure is within allowed limits then the unit responds that span calibration has been successful.



RETURNING PRODUCTS FOR REPAIR

When returning a product to Setra Systems, the material should be carefully packaged and shipped prepaid to: Setra Systems, Inc.

To assure prompt handling, please refer to return instructions on our <http://ecatalog.setra.com/returns>

WARRANTY AND LIMITATION OF LIABILITY

SETRA warrants its products to be free from defects in materials and workmanship, subject to the following terms and conditions: Without charge, SETRA will repair or replace products found to be defective in materials or workmanship within the warranty period; provided that:

- a) The product has not been subjected to abuse, neglect, accident, incorrect wiring not our own, improper installation or servicing, or use in violation of instructions furnished by SETRA;
- b) The product has not been repaired or altered by anyone except SETRA or its authorized service agencies;
- c) The serial number or date code has not been removed, defaced, or otherwise changed; and
- d) Examination discloses, in the judgment of SETRA, the defect in materials or workmanship developed under normal installation, use and service;
- e) SETRA is notified in advance of and the product is returned to SETRA transportation prepaid.

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159 Swanson Rd, Boxborough MA 01719-1304

Tel: 800.257.3872 || 978.263.1400

Email: sales@setra.com || Web: www.setra.com